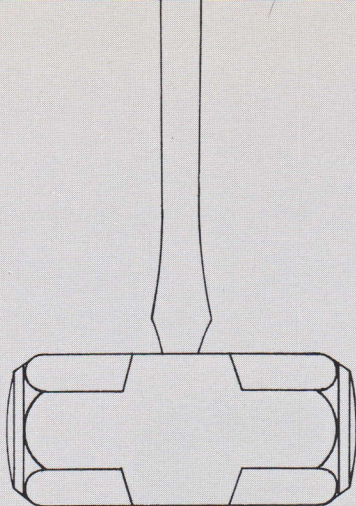


WORLD'S LARGEST EXCLUSIVE MANUFACTURERS OF HEAVY FORGED HAND TOOLS  
BARS • DRIFT PINS • HAMMERS • HOES • MATTOCKS • MAULS •  
PICKS • SLEDGES • TONGS • WEDGES • MISCELLANEOUS TOOLS



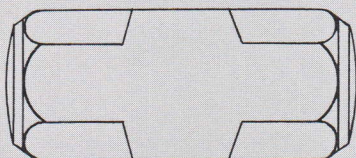


## INDEX

## PAGE

Picks, Mattocks, Hoes, Wedges.....	1
Sledges, Hammers, Mauls.....	2
Bars, Tongs.....	3
Tongs, Chisels, Punches, Pins.....	4

# GENERAL INFORMATION



**STANDARD SPECIFICATIONS:** The dimensional specifications shown in this catalog are accurate. In addition, over long years of producing quality tools, exacting standards in the control of raw materials and heat treatment have been established.

These specifications include weights and dimensions recommended in the United States Department of Commerce Simplified Practice Recommendations (Heavy Forged Hand Tools).

Purchase by federal, state and municipal government units often require that hand tools be purchased to meet the GGG-series of federal specifications. Periodically, the federal government changes these (changes which we often suggest) and we keep posted and attempt to incorporate all of them in our own specifications as they occur. In a few instances, we know our specifications provide a better tool dimension-wise or in the hardness pattern. Should you have requirements to meet these federal specifications, check with us and a quick answer can always be given.



**HOW TO USE THIS CATALOG:** The pages in this catalog meet standards set by the joint committee on catalogs of N.W.H.A., N.I.D.A. and S.I.D.A. and have been specially prepared to aid in the production of your own sales catalog. Each page has been scored for easy removal and space allotted for inclusion of your own prices. Simply remove the desired page and give, with prices, to your printer when preparing your offset catalog.



## PICKS

### Clay Picks



WARREN-TEED  
No. 5

Tough, high carbon steel. Perfect anchor curve. No. 6 eye. Chisel and point. Slip-on type handle.

Weight	Length	Each
5 lbs.	21"	
6 lbs.	23"	
7 lbs.	25"	
8 lbs.	26"	
9 lbs.	27"	

Five to a shipping carton.  
Order by unit weight.

### Double Square Point Clay Pick



WARREN-TEED  
No. 5-E

High carbon steel. No. 6 eye. Slip-on type handle.

Weight	Length	Each
7 lbs.	25"	

Five to a shipping carton.  
Order by unit weight.

### Drifting Picks



WARREN-TEED  
No. 6

High carbon steel. No. 10 eye. Fitted handle.

Weight	Length	Each (Hdd.)	Each (Head Only)
No. 2-4 lbs.	21"		
No. 4-5 lbs.	25"		

Ten to a shipping carton.  
Order by unit weight.

### Contractors' Pick



WARREN-TEED  
No. 7

High carbon steel. No. 6 eye. Slip-on type handle.

Weight	Length	Each
8 lbs.	30"	

Five to a shipping carton.  
Order by unit weight.

### Poll Pick



WARREN-TEED  
No. 12

High carbon steel. No. 10 eye—shape only. Slip-on type handle.

Weight	Length	Each
No. 4-5 lbs.	16"	

Ten to a shipping carton.  
Order by unit weight.

## MATTOCKS—HOES

### Pick Mattocks



WARREN-TEED  
No. 20

High carbon steel. Quality forged, heat treated. Polished bevel. No. 6 eye. Slip-on type handle.

Weight	Length	Blade	Point	Each
5 lbs.	19"	8" x 3½"	8"	
6 lbs.	20"	8" x 4"	9"	

Five to a shipping carton.  
Order by unit weight.

### Cutter Mattocks



WARREN-TEED  
No. 22

High carbon steel. Self-clearing blade taper. Slip-on type handle.

Weight	Lgh.	Eye No.	Blade	Cutter	Each
3 lbs.	12½"	7	3" x 6¼"	2½" x 3½"	
5 lbs.	15½"	6	3½" x 8"	3" x 4½"	
6 lbs.	16½"	6	4" x 8"	3½" x 5½"	

Five to a shipping carton.  
Order by unit weight.

### Ax Eye Garden Mattock



WARREN-TEED  
No. 22-AE-H

High carbon steel. Handled, lightweight garden mattock with No. 10 eye, fitted double bit ax handle. Blade 2½" x 6¼". Cutter 2½" x 3¾".

Weight	Length	Each
2½ lbs.	12½"	

Five to a shipping carton.  
Order by unit weight.

### Garden Mattock



WARREN-TEED  
No. 22-GM-H

High carbon steel. Handled, lightweight mattock with No. 7 eye. Blade 3" x 6½". Cutter 2¼" x 3¾". Slip-on type handle.

Weight	Length	Each
3 lbs.	12½"	

Five to a shipping carton.  
Order by unit weight.

### Grub Hoe



WARREN-TEED  
No. 30

High carbon steel. Eye No. 8. Hoe size 3¾" x 7". Slip-on type handle.

Weight	Length	Each
No. 1-3½ lbs.	10½"	

Ten to a shipping carton.  
Order by unit weight.

## WEDGES

### Square Head Wedges



WARREN-TEED  
No. 120

High carbon steel, heat treated.

Weight	Length	Head	Bit	Each
3 lbs.	7½"	1¼"	2"	
4 lbs.	8½"	1¾"	2¼"	
5 lbs.	9"	1½"	2¾"	
6 lbs.	10"	1¾"	2½"	
8 lbs.	11"	1¾"	2¾"	

Ten to a shipping carton, except 8 lb. size.  
Order by unit weight.

### Truckee Wedges



WARREN-TEED  
No. 121

High carbon steel, heat treated.

Weight	Length	Head	Bit	Each
4 lbs.	9"	1¼"	2¼"	
5 lbs.	9½"	1¾"	2¾"	
6 lbs.	10½"	1½"	2½"	

Ten to a shipping carton.  
Order by unit weight.

### Oregon Splitting Wedge



WARREN-TEED  
No. 123

High carbon steel, heat treated.

Weight	Length	Head	Bit	Each
6 lbs.	8¾"	1¾"	4"	

Order by unit weight.

### Stave Wedges



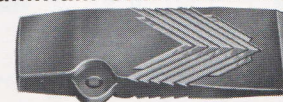
WARREN-TEED  
No. 136

High carbon steel, heat treated.

Weight	Length	Head	Bit	Each
3 lbs.	6¾"	2"	x 1¼"	3½"
4 lbs.	7½"	2½"	x 1¾"	3¾"

Ten to a shipping carton.  
Order by unit weight.

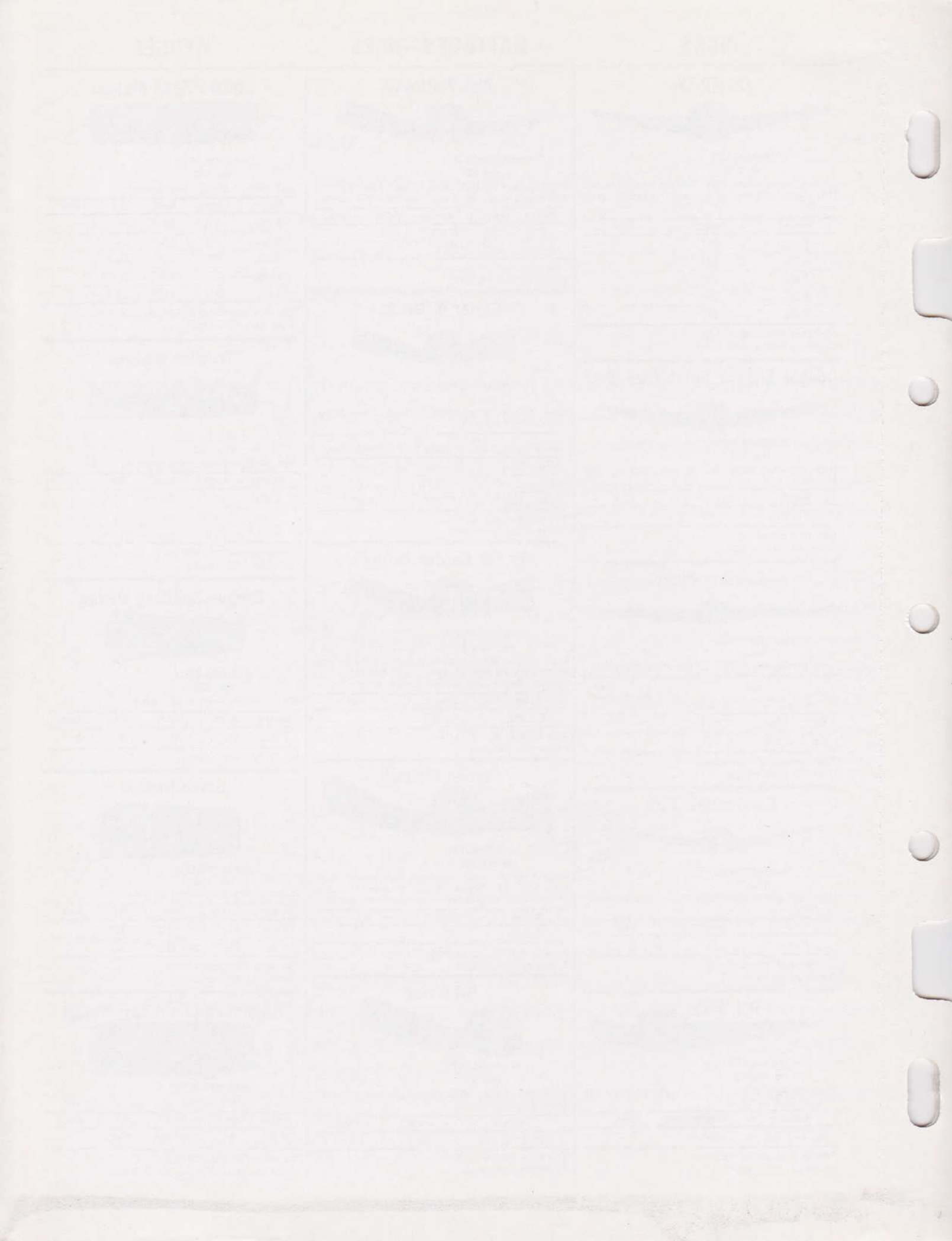
### Aluminum Chain Saw Wedge



WARREN-TEED  
No. 137-A

Weight	Length	Head	Bit	Each
1 lb.	7"	1¾" x 1"	2¾"	

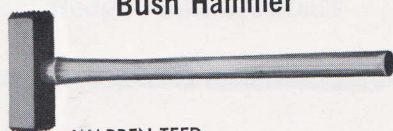
Ten to a shipping carton.  
Order by unit weight.





# SLEDGES – HAMMERS – MAULS

## Bush Hammer



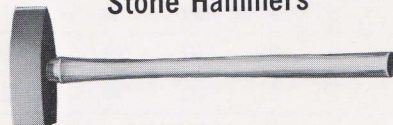
WARREN-TEED  
No. 60-H

High carbon steel, heat treated.

Weight	Eye No. 2 Size	Handle Length	Face	Each (Hdd.)	Each (Head Only)
4 lbs.	3/4"x1"	16"	1 3/4"		

Order by unit weight.

## Single Face Mason, Spalling, or Stone Hammers



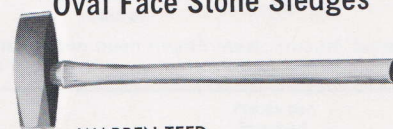
WARREN-TEED  
No. 71-H

High carbon steel, heat treated.

Weight	Eye No. 2 Size	Handle Length	Face	Each (Hdd.)	Each (Head Only)
3 lbs.	3/4"x1"	16"	1 3/4"x1 1/8"		
4 lbs.	3/4"x1"	16"	1 7/8"x1 1/4"		
8 lbs.	1" x1 1/4"	32"	2 3/8"x1 1/2"		
12 lbs.	1" x1 3/8"	34"	2 5/8"x1 3/4"		

Order by unit weight.

## Oval Face Stone Sledges



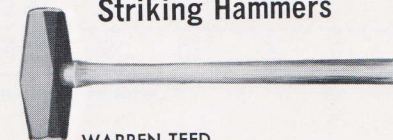
WARREN-TEED  
No. 74-H

High carbon steel, heat treated.

Weight	Eye No. 2 Size	Handle Length	Face	Each (Hdd.)	Each (Head Only)
8 lbs.	1"x1 1/4"	32"	2 1/4"		
12 lbs.	1"x1 3/8"	34"	2 5/8"		

Order by unit weight.

## Nevada (Long) Pattern Striking Hammers



WARREN-TEED  
No. 75-H

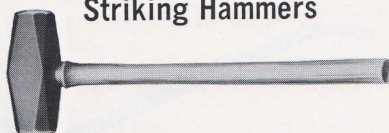
High carbon steel, heat treated.

Weight	Eye No. 2 Size	Handle Length	Face	Each (Hdd.)	Each (Head Only)
3 lbs.	3/4"x1"	16"	1 3/8"		
*4 lbs.	3/4"x1"	16"	1 1/2"		
6 lbs.	1" x1 1/4"	32"	1 3/4"		
8 lbs.	1" x1 1/4"	32"	1 5/8"		
10 lbs.	1" x1 3/8"	34"	2 1/8"		
12 lbs.	1" x1 3/8"	34"	2 1/4"		
16 lbs.	1" x1 3/8"	34"	2 1/2"		

\*4 lb. size orders will be shipped with 16" handles unless 32" is specified.  
Five to a shipping carton except 3 lb. and 16 lb. sizes.

Order by unit weight.

## Oregon (Short) Pattern Striking Hammers



WARREN-TEED  
No. 76-H

High carbon steel, heat treated. Polished, machined faces. Top grade handle.

Weight	Eye No. 2 Size	Handle Length	Face	Each (Hdd.)	Each (Head Only)
*4 lbs.	3/4"x1"	16"	1 5/8"		
6 lbs.	1" x1 1/4"	32"	1 7/8"		
8 lbs.	1" x1 1/4"	32"	2 1/16"		
10 lbs.	1" x1 3/8"	34"	2 1/4"		
12 lbs.	1" x1 3/8"	34"	2 3/8"		

\*4 lb. size orders not specifying handle length will be filled with 16" handle.

Five to a shipping carton.

Order by unit weight.

## New England (Short) Pattern Hand Drilling Hammers



WARREN-TEED  
No. 80-H

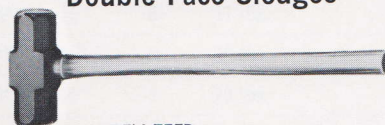
High carbon steel, heat treated.

Weight	Eye No. 2 Size	Handle Length	Face	Each (Hdd.)	Each (Head Only)
2 lbs.	3/4"x1"	10 1/2"	1 1/4"		
3 lbs.	3/4"x1"	10 1/2"	1 1/2"		
4 lbs.	3/4"x1"	10 1/2"	1 5/16"		

Five (handled) to a shipping carton.

Order by unit weight.

## Double Face Sledges



WARREN-TEED  
No. 84-H

High carbon steel, heat treated. Machined, polished faces. Top grade handle.

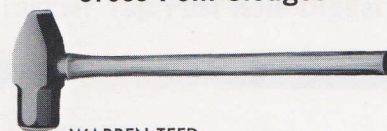
Weight	Eye No. 2 Size	Handle Length	Face	Each (Hdd.)	Each (Head Only)
2 lbs.	5/8" x 7/8"	15"	1 1/2"		
2 1/2 lbs.	5/8" x 7/8"	15"	1 5/8"		
3 lbs.	3/4"x1"	15"	1 5/8"		
*4 lbs.	3/4"x1"	15"	1 3/4"		
6 lbs.	1" x1 1/4"	32"	2 5/8"		
8 lbs.	1" x1 1/4"	32"	2 1/4"		
10 lbs.	1" x1 3/8"	34"	2 1/2"		
12 lbs.	1" x1 3/8"	34"	2 5/8"		
16 lbs.	1" x1 3/8"	34"	2 7/8"		
20 lbs.	1 1/4"x1 1/2"	36"	3"		

Five to a shipping carton except 2 lb., 2 1/2 lb. and 3 lb. sizes. Three (handled) to a shipping carton in 16 lb. and 20 lb. sizes.

\*4 lb. size orders will be shipped with 15" or 16" handles unless 32" is specified.

Order by unit weight.

## Cross Pein Sledges



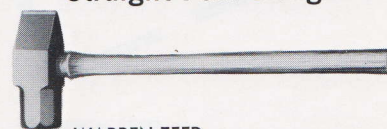
WARREN-TEED  
No. 85-H

High carbon steel, heat treated.

Weight	Eye No. 2 Size	Handle Length	Face	Each (Hdd.)	Each (Head Only)
2 lbs.	5/8" x 7/8"	16"	1 1/2"		
2 1/2 lbs.	5/8" x 7/8"	16"	1 5/8"		
3 lbs.	3/4"x1"	16"	1 5/8"		
8 lbs.	1" x1 1/4"	32"	2 1/4"		
12 lbs.	1" x1 3/8"	34"	2 5/8"		

Order by unit weight.

## Straight Pein Sledges



WARREN-TEED  
No. 86-H

High carbon steel, heat treated.

Weight	Eye No. 2 Size	Handle Length	Face	Each (Hdd.)	Each (Head Only)
8 lbs.	1"x1 1/4"	32"	2 1/4"		
12 lbs.	1"x1 3/8"	34"	2 5/8"		

Order by unit weight.

## Ship or Boat Maul



WARREN-TEED  
No. 103-H

Weight	Eye No. 2 Size	Head Round	Bit Small Face	Hdle. Lgth.	Each (Hdd.)	Each (Head Only)
5 lbs.	1"x1 1/4"	1 7/8"	1/2"	32"		

Order by unit weight.

## Oregon Oval Eye or Ax Eye Woodchoppers' Mauls



WARREN-TEED  
No. 112-H

WARREN-TEED  
No. 113-H

Weight	Eye No. 2 Size	Head	Bit	Hdle. Lgth.	Each (Hdd.)	Each (Head Only)
6 lbs.	1"x1 1/4"	1 7/8"	3 1/2"	32"		
8 lbs.	1"x1 1/4"	2"	4"	32"		

Shipped four (handled) to a shipping carton.  
Order by unit weight.

<p>Unit 1: The History of Mathematics</p> <p>1.1 The Early Civilizations</p> <p>1.2 The Greeks and Romans</p> <p>1.3 The Middle Ages</p> <p>1.4 The Renaissance</p> <p>1.5 The 17th and 18th Centuries</p> <p>1.6 The 19th and 20th Centuries</p> <p>1.7 The Future of Mathematics</p>	<p>Unit 2: The Foundations of Mathematics</p> <p>2.1 Set Theory</p> <p>2.2 Logic</p> <p>2.3 Probability and Statistics</p> <p>2.4 Combinatorics</p> <p>2.5 Graph Theory</p> <p>2.6 Number Theory</p> <p>2.7 Algebra</p> <p>2.8 Geometry</p> <p>2.9 Calculus</p> <p>2.10 Analysis</p>	<p>Unit 3: The Applications of Mathematics</p> <p>3.1 Physics</p> <p>3.2 Chemistry</p> <p>3.3 Biology</p> <p>3.4 Medicine</p> <p>3.5 Engineering</p> <p>3.6 Economics</p> <p>3.7 Social Sciences</p> <p>3.8 Computer Science</p> <p>3.9 Environmental Science</p> <p>3.10 Interdisciplinary Research</p>
<p>Unit 4: The History of Mathematics</p> <p>4.1 The Early Civilizations</p> <p>4.2 The Greeks and Romans</p> <p>4.3 The Middle Ages</p> <p>4.4 The Renaissance</p> <p>4.5 The 17th and 18th Centuries</p> <p>4.6 The 19th and 20th Centuries</p> <p>4.7 The Future of Mathematics</p>	<p>Unit 5: The Foundations of Mathematics</p> <p>5.1 Set Theory</p> <p>5.2 Logic</p> <p>5.3 Probability and Statistics</p> <p>5.4 Combinatorics</p> <p>5.5 Graph Theory</p> <p>5.6 Number Theory</p> <p>5.7 Algebra</p> <p>5.8 Geometry</p> <p>5.9 Calculus</p> <p>5.10 Analysis</p>	<p>Unit 6: The Applications of Mathematics</p> <p>6.1 Physics</p> <p>6.2 Chemistry</p> <p>6.3 Biology</p> <p>6.4 Medicine</p> <p>6.5 Engineering</p> <p>6.6 Economics</p> <p>6.7 Social Sciences</p> <p>6.8 Computer Science</p> <p>6.9 Environmental Science</p> <p>6.10 Interdisciplinary Research</p>
<p>Unit 7: The History of Mathematics</p> <p>7.1 The Early Civilizations</p> <p>7.2 The Greeks and Romans</p> <p>7.3 The Middle Ages</p> <p>7.4 The Renaissance</p> <p>7.5 The 17th and 18th Centuries</p> <p>7.6 The 19th and 20th Centuries</p> <p>7.7 The Future of Mathematics</p>	<p>Unit 8: The Foundations of Mathematics</p> <p>8.1 Set Theory</p> <p>8.2 Logic</p> <p>8.3 Probability and Statistics</p> <p>8.4 Combinatorics</p> <p>8.5 Graph Theory</p> <p>8.6 Number Theory</p> <p>8.7 Algebra</p> <p>8.8 Geometry</p> <p>8.9 Calculus</p> <p>8.10 Analysis</p>	<p>Unit 9: The Applications of Mathematics</p> <p>9.1 Physics</p> <p>9.2 Chemistry</p> <p>9.3 Biology</p> <p>9.4 Medicine</p> <p>9.5 Engineering</p> <p>9.6 Economics</p> <p>9.7 Social Sciences</p> <p>9.8 Computer Science</p> <p>9.9 Environmental Science</p> <p>9.10 Interdisciplinary Research</p>
<p>Unit 10: The History of Mathematics</p> <p>10.1 The Early Civilizations</p> <p>10.2 The Greeks and Romans</p> <p>10.3 The Middle Ages</p> <p>10.4 The Renaissance</p> <p>10.5 The 17th and 18th Centuries</p> <p>10.6 The 19th and 20th Centuries</p> <p>10.7 The Future of Mathematics</p>	<p>Unit 11: The Foundations of Mathematics</p> <p>11.1 Set Theory</p> <p>11.2 Logic</p> <p>11.3 Probability and Statistics</p> <p>11.4 Combinatorics</p> <p>11.5 Graph Theory</p> <p>11.6 Number Theory</p> <p>11.7 Algebra</p> <p>11.8 Geometry</p> <p>11.9 Calculus</p> <p>11.10 Analysis</p>	<p>Unit 12: The Applications of Mathematics</p> <p>12.1 Physics</p> <p>12.2 Chemistry</p> <p>12.3 Biology</p> <p>12.4 Medicine</p> <p>12.5 Engineering</p> <p>12.6 Economics</p> <p>12.7 Social Sciences</p> <p>12.8 Computer Science</p> <p>12.9 Environmental Science</p> <p>12.10 Interdisciplinary Research</p>



## BARS

### Wedge Point Crowbars



WARREN-TEED  
No. 40

Weight	Length	Stock	Pieces per Standard Package	Each
10 lbs.	48"	1"	6	
12 lbs.	51"	1 1/8"	6	
14 lbs.	54"	1 1/8"	4	
16 lbs.	57"	1 1/4"	4	
18 lbs.	60"	1 1/4"	4	
22 lbs.	64"	1 3/8"	3	
26 lbs.	66"	1 1/2"	3	

Order by unit weight.

### Pinch Point Crowbars



WARREN-TEED  
No. 41

High carbon open hearth steel. Smooth taper, roll forged.

Weight	Length	Stock	Pieces per Standard Package	Each
6 lbs.	36"	7/8"	6	
10 lbs.	48"	1"	6	
12 lbs.	51"	1 1/8"	6	
14 lbs.	54"	1 1/8"	4	
16 lbs.	57"	1 1/4"	4	
18 lbs.	60"	1 1/4"	4	
22 lbs.	64"	1 3/8"	3	
26 lbs.	66"	1 1/2"	3	

Order by unit weight.

### Diamond Point Lining Bar



WARREN-TEED  
No. 42

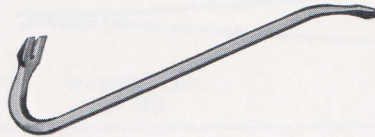
High carbon open hearth steel.

Weight	Length	Stock	Pieces per Standard Package	Each
18 lbs.	60"	1 1/4"	4	

Order by unit weight.

## BARS

### Carpenters' Wrecking Bars



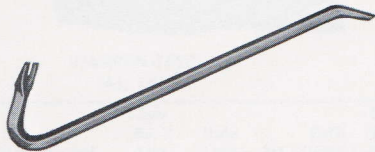
WARREN-TEED  
No. 45

High carbon open hearth steel.

Length	Stock	Pieces per Standard Package	Weight per Carton or Bundle	Each
12"	1/2"	10	7 lbs.	
18"	5/8"	10	17 lbs.	
24"	3/4"	10	33 lbs.	
30"	3/4"	10	39 lbs.	
36"	3/4"	5	24 lbs.	
36"	7/8"	5	36 lbs.	

Order by stock size and length.

### High Quality Wrecking Bars



WARREN-TEED  
No. 45-H.Q.

Highest quality hex steel, heat treated and polished chisel point and claw.

Length	Stock	Pieces per Standard Package	Weight per Carton or Bundle	Each
18"	5/8"	5	11 lbs.	
24"	3/4"	5	19 lbs.	
30"	3/4"	5	23 lbs.	
36"	3/4"	5	28 lbs.	
36"	7/8"	5	36 lbs.	

Order by stock size and length.

### Special Wrecking Bars

WARREN-TEED  
No. 400

Size	Pieces per Standard Package	Weight per Bundle	Each
1/2"x12"	12	9 lbs.	
5/8"x18"	12	20 lbs.	
3/4"x24"	12	39 lbs.	
3/4"x30"	12	47 lbs.	
3/4"x36"	12	56 lbs.	

Order by stock size and length.

## BARS—TONGS

### Tamper Top Post Hole Digger



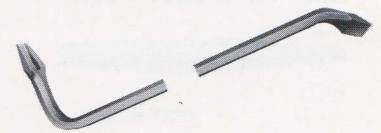
WARREN-TEED  
No. 49

One-piece high carbon steel. Blade end heat treated.

Weight	Lgth.	Stock	Blade	Tamper	Each
16 lbs.	69"	1"	2 1/2"x10"	2 3/8"	

Four to a shipping bundle.  
Order by unit weight.

### Concrete Form Stripping Bar (Claw End)

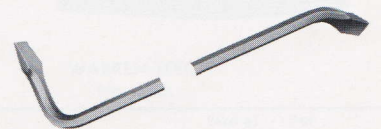


WARREN-TEED  
No. 450

Weight	Length	Stock	Pcs. per Standard Package	Wt. per Carton or Bundle	Each
8 lbs.	42"	7/8"	10	80 lbs.	

Order by unit weight.

### Concrete Form Stripping Bar



WARREN-TEED  
No. 451

Weight	Length	Stock	Pcs. per Standard Package	Wt. per Carton or Bundle	Each
8 lbs.	42"	7/8"	10	80 lbs.	

Order by unit weight.

## TONGS

### Single Pick-Up Tongs



WARREN-TEED  
No. 200

Over-all Length	Lip Size	Rein Size	Weight	Each
24"	3/16"x7/8"	7/16"x19/4"	3 lbs.	

Order by length.





## TONGS

### Double Pick-Up Tongs



WARREN-TEED  
No. 200-A

Over-all Length	Lip Size	Rein Size	Weight	Each
24"	3/16"x7/16"	7/16"x18"	2 3/4 lbs.	

Order by length.

### Bolt or Curved Lip Tongs



WARREN-TEED  
No. 202

O'all Lgth.	To Hold Rds.	Lip Size	Rein Size	Weight	Each
18"	1/4"	1/8"x1 1/2"	7/16"x13 3/8"	2 lbs.	
20"	3/8"	1/8"x1 1/2"	7/16"x15 1/4"	2 lbs.	
20"	1/2"	1/8"x5/8"	7/16"x15 3/8"	2 1/2 lbs.	
22"	5/8"	1/8"x7/8"	7/16"x17 3/8"	2 3/4 lbs.	
22"	3/4"	1/8"x7/8"	7/16"x17 3/8"	2 3/4 lbs.	
24"	7/8"	1/8"x1 5/16"	7/16"x19 1/8"	2 3/4 lbs.	
24"	1"	1/8"x1"	7/16"x19 1/8"	3 lbs.	
26"	1 1/2"	1/8"x1 3/4"	7/16"x20"	3 lbs.	

Order by rounds and length.

### Straight Lip Tongs



WARREN-TEED  
No. 203

Over-all Length	Lip Size	Rein Size	Weight	Each
18"	3/8"x1"	3/8"x14"	2 1/2 lbs.	
24"	3/8"x1"	7/16"x20"	3 1/4 lbs.	

Order by length.

### Flat Jaw Gad Tongs



WARREN-TEED  
No. 204

Over-all Length	Lip Size	Rein Size	Weight	Each
24"	7/32"x7/8"	7/16"x19 3/8"	3 lbs.	

Order by length.

## TONGS—CHISELS

### Rivet Heaters' Tongs



WARREN-TEED  
No. 205

Over-all Length	Lip Size	Rein Size	Weight	Each
30"	3/16"x3/8"	7/16"x23 3/8"	2 1/4 lbs.	

Order by length.

### Rivet Holding Tongs



WARREN-TEED  
No. 206

Over-all Length	Lip Size	Rein Size	Weight	Each
24"	5/16"x1 1/2"	7/16"x19"	3 lbs.	

Order by length.

### Blacksmiths' Hot Chisel



WARREN-TEED  
No. 161

Size	Weight	Eye No. 2 Size	Hdle. Lgth.	Bit	Each (Hdd.)	Each (Head Only)
1 1/2"	3 lbs.	3/4"x1"	16"	2"		

Order by size.

### Blacksmiths' Cold Chisels

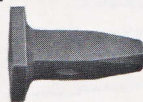


WARREN-TEED  
No. 162

Size	Weight	Eye No. 2 Size	Hdle. Lgth.	Bit	Each (Hdd.)	Each (Head Only)
1 1/4"	2 lbs.	5/8"x 7/8"	16"	1 1/4"		
1 1/2"	3 lbs.	3/4"x1"	16"	1 1/2"		
1 3/4"	5 lbs.	1" x1 1/4"	32"	1 3/4"		

Order by size.

### Square Flatters



WARREN-TEED  
No. 164

Size	Weight	Eye No. 2 Size	Hdle. Lgth.	Each (Hdd.)	Each (Head Only)
2"	2 1/2 lbs.	2 5/8"x 7/8"	16"		
2 1/2"	3 1/2 lbs.	2 3/4"x1"	16"		
3"	5 lbs.	3 3/4"x1 3/8"	24"		

Order by size.

## PUNCHES

### Round Punches



WARREN-TEED  
No. 165

Size	Weight	Length	Eye No. 2 Size	Each (Hdd.)	Each (Head Only)
1/4"	1 1/4 lbs.	7"	5/8"x 7/8"		
3/8"	1 1/2 lbs.	7 1/4"	5/8"x 7/8"		
1/2"	2 lbs.	7 1/2"	5/8"x 7/8"		
5/8"	2 1/4 lbs.	7 3/4"	3/4"x1"		
3/4"	2 1/2 lbs.	8"	3/4"x1"		
7/8"	3 lbs.	8 1/4"	3/4"x1"		
1"	3 1/2 lbs.	8 1/2"	3/4"x1"		

Order by size. Furnished with 16" handles.

### Taper Type Drift Pins



WARREN-TEED  
No. 175

Size	Weight	Length	Size of Stock	For Holes	Each
1/2"	7 oz.	6 1/2"	9/16"	1/2"	
5/8"	10 oz.	7"	1 1/16"	5/8"	
3/4"	14 oz.	7 1/2"	1 3/16"	3/4"	
7/8"	20 oz.	8"	1 5/16"	7/8"	
1"	26 oz.	8 1/2"	1 1/16"	1"	

Order by size.

### Barrel Type Drift Pins



WARREN-TEED  
No. 176

Size	Weight	Length	Size of Stock	For Holes	Each
1/2"	7 oz.	6 1/2"	9/16"	1/2"	
5/8"	10 oz.	7"	1 1/16"	5/8"	
3/4"	14 oz.	7 1/2"	1 3/16"	3/4"	
7/8"	20 oz.	8"	1 5/16"	7/8"	
1"	26 oz.	8 1/2"	1 1/16"	1"	

Order by size.

### Backing Out Punches



WARREN-TEED  
No. 179

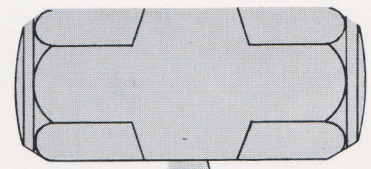
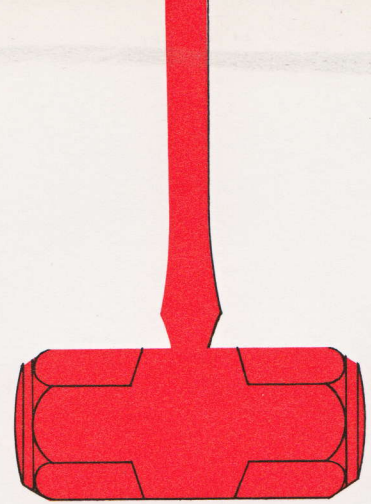
Size	Weight	Length	Eye No. 2 Size	Each (Hdd.)	Each (Head Only)
1/2"	1 3/4 lbs.	7 1/2"	3/4"x1"		
5/8"	2 lbs.	7 3/4"	3/4"x1"		
3/4"	2 1/2 lbs.	8"	3/4"x1"		
7/8"	3 lbs.	8 1/4"	3/4"x1"		
1"	3 1/2 lbs.	8 1/2"	3/4"x1"		

Order by size. Furnished with 16" handles.



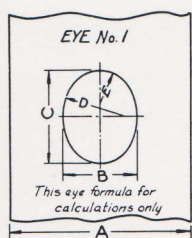




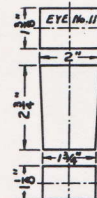
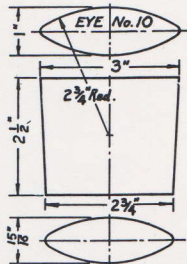
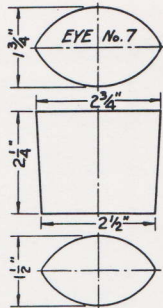
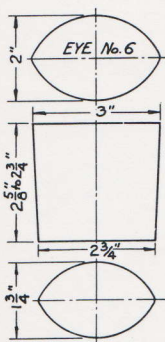
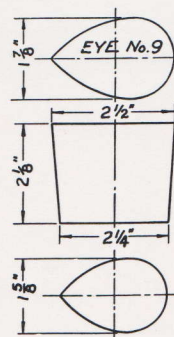
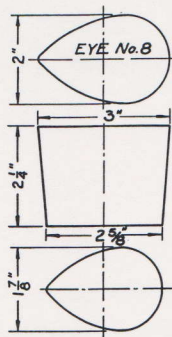


# EYE SPECIFICATIONS

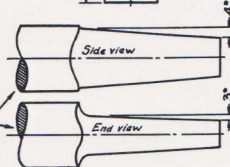
The shapes of the eyes of the different tools listed and described in the preceding pages are designated by numbers corresponding to those of the U.S. Dept. of Commerce Heavy Forged Hand Tools Simplified Practice Recommendation—R17-47, effective October 15, 1947. We illustrate below these different eyes.



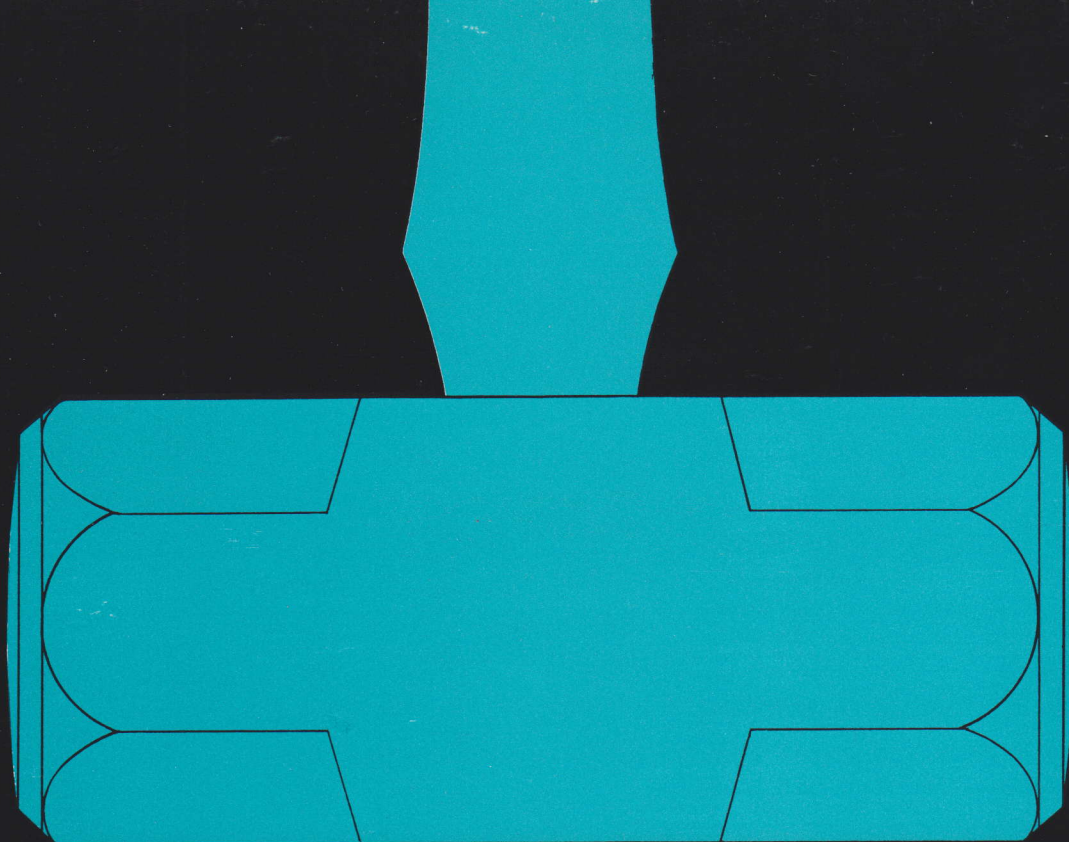
Eye formula:  
 A—Size of stock,  
 B—40 percent of A,  
 C—125 percent of B (approximate),  
 D—5/8 of B.  
 E—To suit dimensions B, C, and D.  
 Note.—Manufacturers have a tolerance limit of 1/16 in. above and 1/32 in. under all eyes to allow for punch wear.  
 On eyes #2,3,4,---3° taper on cross section  
 ---4° taper on long section



Taper for typical tool handle







WARREN TOOL CORPORATION  
WARREN, OHIO



Subsidiary Companies:  
The Cincinnati Tool Co. • The Columbian Vise & Mfg. Co.

